A.N.A.R.T.S. News Bulletin 1409 13th of Aug 06

Views expressed in this news bulletin are not necessarily

those of the Broadcast Officer, the Relay Officers, or of

the Society.

Items in this broadcast include

1. Cols column

2. IPS REPORT

3. VK2SG RTTY DX report

4. OPDX News

5. Anarts Information

Col's Column

Propagation of Radio Waves.

Propagation of VHF Frequency Radio Waves.

Effect of Earths Curvature and Atmosphere.

For VHF transmissions over considerable distances, it is necessary to take

into account the curvature of the Earth. Even though this may mean that a

straight line path does not exist between transmitter and receiving antennae,

it is possible for energy to reach the receiver as a result of refractions

by the earths atmosphere, providing, of course, that the degree of bending

necessary for the wave to reach the receiving point is relatively small.

Refraction by the Earths atmosphere comes about because the variation of

pressure, temperature and moisture content of the atmosphere with height

causes the refractive index of the atmosphere to decrease. This tends to bend

the wave back towards the Earth in much the same manner as the ionospheric

layers cause bending of HF waves.

The amount of bending that results from atmospheric

refraction varies with

atmospheric conditions, but on the average, it is
equivalent to assuming the

earths radius is increased by 25 to 35 percent.

VHF transmission paths are extremely stable as long as a
straight line path

is possible between transmitting and receiving points.
However, when the

transmission distance is such that it is necessary to
depend on the refraction

in the Earths atmosphere to obtain direct ray
transmission to the receiver,

fading frequently occurs as a result of variations in the
Earths atmosphere

changing the amount of refraction that the wave
undergoes. This fading becomes

more severe as the transmission distances approaches the
maximum possible

distance of direct ray transmission,

A diagram, showing the propagation of VHF energy between
transmitter and receiver

under conditions where a straight line path falls
slightly below the Earths

surface, will be placed on ANARTS web page, with
explanatory text, this weekend.

Next week we take a look at miscellaneous factors
affecting the propagation of

radio waves, commencing with noise.

73's Colin VK2CTD.

cq cq de vk2tty vk2tty

IPS Weekly Solar and Geophysical Report 4/10th Aug

SUMMARY

Date 04 05 06 07 08 09 10

10cm flux 70 70 70
70 71 74 80

AFr index 2 2 2 19
10 9
5 est

Aaus index 1 2 2
21 7

6 3 est

T index   15 27 12
20 11 6
6

Solar flare activity was very low 4/9th low on 10th.

Geomagnetic activity observed for the Australian Region
was quiet on 4/6th

and 10 quiet to minor storm on 7th and quiet to unsettled
on 8/9th.

Southern Australian Ionospheric F2 critical frequencies
were near predicted

to 20 percent enhanced on 4th near predicted to 30
percent enhanced on 5th

and near predicted over the remainder of the period.

Forecast for 11/17th Aug

Solar activity should see moderate activity early in the
week.

Geomagnetic activity should see quiet to unsettled
conditions.

Frequencies should be near predicted monthly values.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES WEEK ENDING 10 AUG

This week our information came from AA5AU GU0SUP I5FLN
DJ3IW UT5RP

OH2AQ DX Summit and NG3K.

Friday 4

0009-14090 9Z4FZ

0010-14079 YU6AO

0032-14090 FG/JJ2RCJ

0033-14087 6Y5WJ

0035-14084 OX3PG

0107-14089 UN5J

0116- 7043 KP4JRS

0235- 7035 YU6AO

0240- 7037 9Z4FZ

0320-14085 VP9/K3TRM

0412- 7036 YU6AO

0426-10135 XE1KK

0512-14082 EK6TA

0520-14080 YU6AO

0556- 1814 9Z4FZ

0632-14079 4O3T

0740-14085 TM0FIL

0745-14081 DF7FC/P EU-042

1000-14083 BD3APX

1059-14086 TF3GC

1115-14080 1B/G7PAF

1213-14085 VP9/K3TRM

1240-14089 FG/JJ2RCJ

1417-14086 EX8AB

1636-14084 V55SRT

1736-14085 YI1OM

1758-14086 R375I

1820-10138 4O3T

2016-14090 CT3/DL3DRN

2021-14081 TF3PPN

2054-14083 9G1UW

2103-14089 CU2JT

2106- 7037 YU6AO

2115-14085 HK4QHD

2127-14084 3A2MW

2153-14094 VP9/K3TRM

2221-14081 OX3PG

2228-14084 9Z4FZ

2240-14084 CE3PG

2255-14087 ZL3RG

2259-14082 HC2NGF

2301-14089 EF8SRT

2305-14085 ZP8AE

2347-14082 TG9AKH

2354-14087 5W0DP

Saturday 5

0009-14085 OX3PG

0018- 7035 YU6AO

0042-14084 CN8KD

0533-14082 EX8AB

0622-24923 UN7PBY

0656-14078 4O3T

0929-14080 YU6AO

1036-14084 P29ZAD

1132-18099 EF8SRT

1150-18105 ER3ZZ

1205-14080 YU6AO

1230-14090 FG/JJ2RCJ

1240-14080 VR2XMT

1252-18101 YU6AO

1338-21088 FG/JJ2RCJ

1353-14087 ZS2DL

1527-14088 CN8KD

1645-14082 YU150AU

1647-14083 OX/DF2BR

1735-14084 ZS2EZ

1818-10136 9Z4FZ

1839-10136 YU6AO

1841- 3579 YU6AO

1916-14086 TA3CIL

1907-14086 CU8F

1951-10137 VP9/K3TRM

2010-14094 FG/JJ2RCJ

2053-14094 9G1UW

2053-14084 4Z5PN

2057-14083 Z31MM

2202-14087 6Y5WJ

2249-18106 5W0DP

Sunday 6

0002-14083 YU6AO

0016-14088 VP9/K3TRM

0125-10135 KP4JRS

0419-14086 5W0DP

0730-14083 4W6AAB

0815-14081 OX/DF2BR

0846-18101 9M2JKL

0938-14082 OX/DF2BR

1047-14091 FG/JJ2RCJ

1053-14085 VP9/K3TRM

1059-14078 4O3T

1217-14089 HF62PW

1219-14088 EX8AB

1349-14082 IY6GM

1510-14082 CU8F

1514-18100 HI3TEJ

1534-18100 9Z4FZ

1702-14085 9G1UW

1702-14084 TM0FIL

1724-14089 TK/IZ0BTV

1813-14083 C31BO

1820-18102 FG/JJ2RCJ

1820-14081 PY2FR

1830-14088 ER3ZZ

1835-14085 ER3MM

1855-14086 R375I

1936-14090 HI3TEJ

1943-21085 ZP8AE

2003-14081 YM125ATA

2015-14088 9G1UW

2016-14080 CT3/DL3DRN

2023-14095 VP9/K3TRM

2026-14090 EF8SRT

2100-14087 K0ARY/VP9

2137-18101 5W0DP

2148-14083 CN8IG

2202-14080 YU6AO

Monday 7

0058-14086 OX/DF2BR

0253-18102 5W0DP

0700-14085 SV1GYG/8

0949-14080 4O3T

1006-14080 4W6AAB

1051-14081 9M2JKL

1209-14090 FG/JJ2RCJ

1334-14081 TK/IZ0BTV

1430-14081 9M2JKL

1431-14085 EX8AB

1438-14086 IS0AFM

1456-14080 YU6AO

1500-14092 TK/IZ0BTV

1610-14088 4K5D

1613-14088 VU2PHD

1635-10132 YU6AO

1642-14089 9A/S51FB/P

1722-14078 VR2XLN

1804-14086 IS0GQX

1804-10135 UK8FF

1900-14093 VP9/K3TRM

1903-14086 FG/JJ2RCJ

1904-14085 4Z5PN

1906-14082 LX/PA2PIM

1908-14081 IS0BWM

1910- 3584 YU6AO

1914-14083 LX/PA2PIM

1940-14086 9G1UW

2042-14082 SV9/SV1AVD

2113-14095 EA8RR

2124-14081 CN8IG

Tuesday 8

0727-14080 4W6AAB

0925-14084 YU6AO

1132-14086 4O3T

1640-14080 UN7GCE

1711-14082 VU2PHD

1835-14084 4K5D

1838-14084 4Z5PN

1843-14082 CN8IG

1848-14086 IS0AFM

1915-14086 EA8AG

1927-14088 EX8AB

1945-10145 TK/IZ0BTV

2041-14084 9G1UW

2110-14080 V47/AB2RF

2147-14081 L30BST

2151-14083 TF6/IZ6BRN

Wednesday 9

0015-14081 6Y5WJ

0831-24912 YU6AO

0930-14081 4W6AAB

0958-14090 9K2SR

1107-14082 4O4T

1214-14093 V47/AB2RF

1218-14082 EA9IB

1259-14081 9M2JKL

1351-28081 YU6AO

1452-14081 XU7ABN

1506-14083 YI1OM

1507-14091 8S30JC

1508-14086 V47/AB2RF

1631-14084 OX/DF2BR

1724-14085 EX8AB

2012-14087 EA8KG

2036-14091 TK/IZ0BTV

2039-14084 9G1UW

2056-14080 EA9IB

2108-14085 TF3PPNL

2201-14085 TI3MAO

2255- 7030 TF6/IZ6BRN

2303-14086 HP1DCP

Thursday 10

0047- 7036 V47/AB2RF

0355-14082 EK6TA

0801-14086 5W0DP

0806-14080 4W6AAB

1038-14093 V47/AB2RF

1154-14080 YU6AO

1316- 7037 T88D

1330-28079 YU6AO

1334-18104 UN9PQ

1406-14082 HX62PW

1502-14085 EA8AGF

1600-14081 VU2PHD

1633-18102 V47/AB2RF

Notes of Interest

Georgia, 4L By UX3MR as 4L/UX3MR Aug 10-30. QSL via UX3MR.

The VK2SG RTTY DX NOTES are distributed every week via the Winlink network

and are also available on the Internet at URL

http://mailman.qth.net/pipermail/vk2sg-rtty/ and the digital-dx reflector.

To subscribe to the digital-dx reflector send an e-mail message to

majordomo at mla.nifty.ne.jp as follows

Subject:(blank) Message

Body:

subscribe digital-dx

For next weeks bulletin send your bandpass and notes of interest to Phil

GU0SUP pcooper at guernsey.net

GL with RTTY Don AA5AU

The Ohio/Penn DX Bulletin No. 770 - excerpts

4O6, MONTENEGRO

It was reported today by Joe W8GEX, that he and four other members from the

SouthWest Ohio DX Association are going to Montenegro on Aug 13 for a 7 day

operation at the Sky Contest station. YT6A owns the club station, and they

will be operating from on top of a mountain. The location is about 1000 ft

high with a very nice station and building. They should arrive late on Aug

13th. By the time they get up the hill (a very rocky road that will take a

hour to climb the 1000 ft. in a 4x4 Land Rover) they should be on the air on

the 14th GMT. Their callsign will be 4O6DX. The group will be on 160-6M CW

SSB and PSK.

ANTARCTICA ACTIVITY

Oleg R1ANF is active for about 2 weeks from Priroda Refuge (RUS-15 new WAP

reference). This refuge was installed during the 32nd Russian Antarctic

Expedition, Feb 18 1987 and is located at King George Island (South

Shetlands) NW of Fildes peninsula 8 km from Bellingshausen station, at

62.09S 58.56.35W. His callsign will be R1ANF/p. Check 14023 kHz starting

from 1800z and ahead

IOTA NEWS

EU-038. (Satellite Op) Andre PH7AT will be active as PH7AT/p from Texel

Island WLOTA LH-0003 Sep 4-8h. He will be operating mainly with a QRP

handheld 5w on satellites AO-27 SO-50 AO-51 AO-7 FO-29 and VO-52. There

may be some HF activity if his schedule permits. QSL via his home callsign

direct or by the bureau.

EU-042. Ten operators from the radio club station 'Fachhochschule Wolfenbuttel

AFu-AG' will use their club callsign DF0WFB Aug 17-20 from Hallig Oland

Island WLOTA LH-0712. Look for activity on all bands and modes. QSL DF0WFB via

the bureau or direct with SAE + sufficient postage.

EU-054. Giovanni IK1WEG will be active as IF9/IK1WEG/p from Isola Favignana

IIA TP-011 MIA MI-025 WLOTA LH-1545 now through Aug 19. Activity will be on

the HF bands. QSL via his home callsign direct or by the bureau.

LIGHTHOUSE/LIGHTSHIP ACTIVITIES

The Nieuwpoort Lighthouse BEL-004 will be activated during the coming Inter

national Lighthouse and Lightship ILLW weekend Aug 19-20 by members of the

UBA sections DST KSD and RCO. Activity will be on all bands 80-2M mainly on

SSB CW and PSK31. At regular intervals the operators may be seen on ATV as

well (live via the ON0OS ATV output on 1255 MHz or screen captures on

http://www.on4aim.com.

Don VP8ON along with several other operators, will activate the Cape Pembroke

Lighthouse ARLHS FAL-009 WW Loc. GD18DH, located in the Falkland Islands

SA-002 for the International Lighthouse-Lightship Weekend ILLW Aug 19-20.

QSL via VP8ON (QRZ.com).

Hector/CE3FZL and Ricardo/CE3HDI will be active as CE2P SSB and CE2F CW

respectively from Punta Panul Lighthouse ARLHS-073 in San Antonio Port in

CHILE during the ILLW. Activity will be on all bands. QSL CE2P via EA5KB and

CE2F via CE3HDI. Addresses can be obtained on (QRZ.com).

Members of the Bahia Blanca DX Group will transmit for the first time from 5

different lighthouses at the same time during the International Lighthouse

/Lightship Weekend ILLW. Look for the following lighthousesRincon Lighthouse

ARG-03 Recalada Lighthouse ARG-009 Baliza Chica Lighthouse ARG-083 Punta

Tejada Lighthouse Hipasam Lighthouse ARG-040 - FIRST TIME ACTIVITY-.

Look for activity from the above LH on all bands and modes including

digimodes RTTY PSK SSTV.

The Panama Canal Amateur Radio Association will activate Panama Canal Miraflores

Lighthouse PAN-030 Aug 19-20. Activity will be on all bands and modes including

some PSK31.

MICROLITE BALTIC TOUR 2006

Vincenzo IZ0FKE informs OPDX that he will be active from the Baltic area. His

schedule is as follows Aug 12-23 active as OH0/IZ0FKE from Odkarby EU-002

Aland Main Island. He states activity will be on the WARC bands and PSK31.

OH0, ALAND ISLAND

Four Finnish operators will be active from here during the CQWW DX RTTY Contest

Sep 23-24. Look for Raimo,OH3BHL to be active as OH0Z as a Single-Op/Single-Band

80m entry. QSL via W0MM.

Look for Juhani OH8JT to be active as OH0I as a Single-Op/Single-Band 40m entry.

QSL via OH3BHL.

Look for Juha,OH9MM to be active as OH0M as a Single-Op/Single-Band 20m entry.

QSL via OH1MM.

Look for Kimmo OH9MDV to be active as OH0KAG as a Single-Op/Single-Band 15m

entry. QSL via OH1KAG.

SPECIAL EVENTS (Japan)

Look for the following JA operations to take place during Aug

8J1A - Activity Aug 1-20 to celebrate the 2006 Amateur Radio Festival.

Look for activity on all HF bands and modes.

8J120JAS - Activity Aug 1-31 to celebrate the 20th anniversary of the Fuji

amateur radio satellite. Look for activity on all HF bands and modes.

8J620JAS - Activity Aug 1-31 to celebrate the 20th anniversary of the Fuji

amateur radio satellite - Tanegashima. Look for activity on all HF bands

and modes.

8J2ARDF - Activity Aug 6/Oct 15 to celebrate the All Japan ARDF Athetic

Meeting. Operations will be on all bands and modes.

8J7JAZZ - Activity Aug 10/Sep 10 to celebrate the 16th Johzenji Streetjazz

Festival in Sendai. Operations will be on all HF bands and modes.

USI NEWS

MI-NEW. Look for special event callsign K8G to be active from Granite Island

ARLHS USA-333 during the ILLW. Activity will be on most HF bands SSB CW and

PSK31. QSL via K8PT w/SASE SAE and IRC or GS, or by the bureau. Operations

will start at 0001z Sat and end 2359z Sun.

VQ9, CHAGOS ISLANDS

Jim ND9M (VQ9JC and KG4JC) will be returning to Diego Garcia AF-006 this

week for another four month tour. He is a Radio Officer on the M/V Sgt.

William R Button for the Military Sealift Command (MSC). He informs OPDX that

his previous tour over last winter produced nearly 15,000 QSOs (84 PERCENT

CW 11 SSB 5 Digital) despite lousy band conditions, and he is hoping for

another productive time on the island. QSL either direct or via the bureau

by his home callsign ND9M.

The Society can be contacted in the following ways

To Pat VK2JPA via patleeper at optusnet.com.au or

Col VK2CTD via ctdavies at bigpond.net.au or

you can drop a line to PO Box 93 Toongabbie NSW 2146.

73’s from Pat VK2JPA broadcast Officer

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